

FIG.1

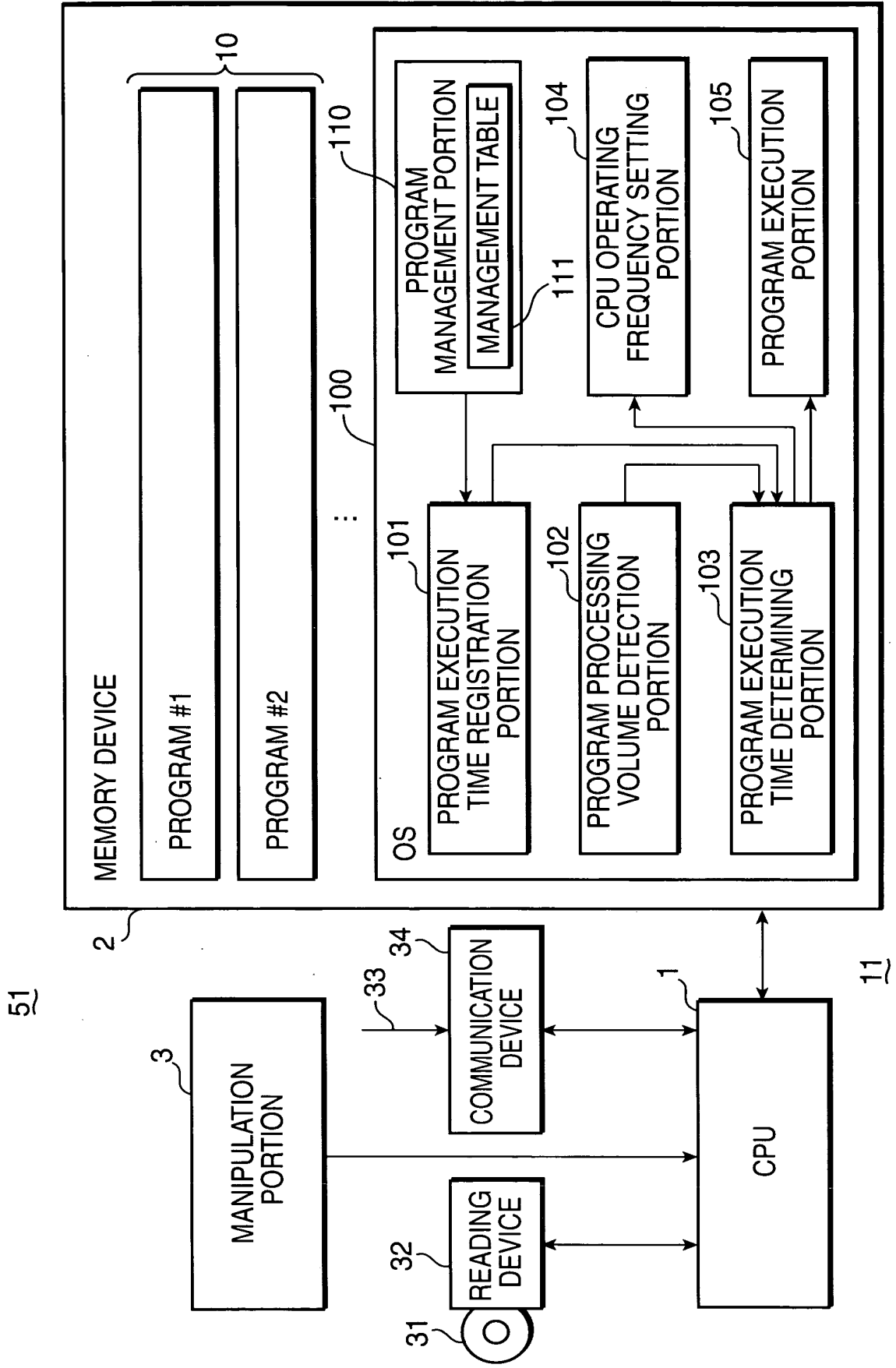


FIG.2

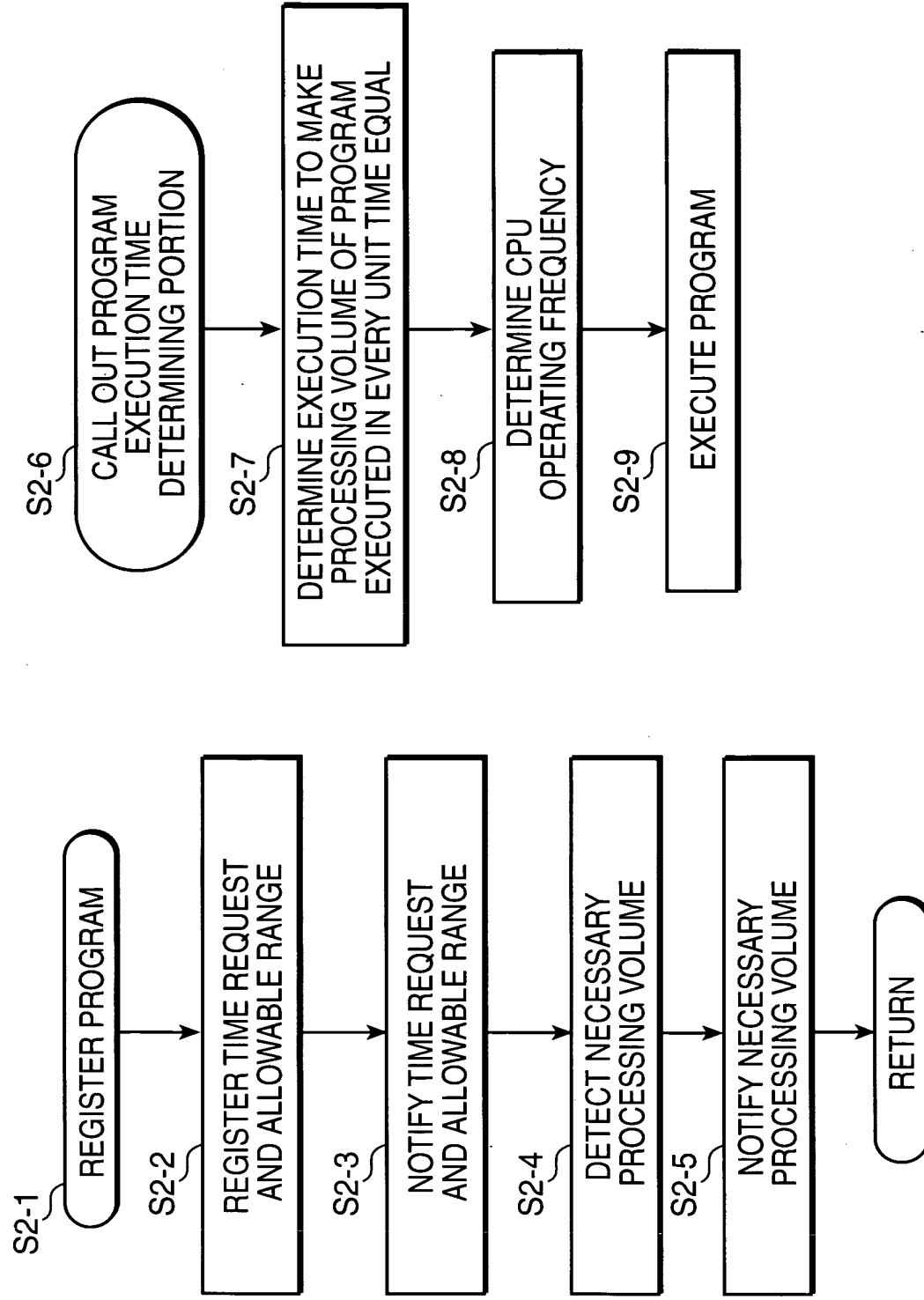


FIG.3A1

EXECUTION TIME REQUEST
WHEN PROGRAM IS REGISTERED

NECESSARY PROCESSING VOLUME
(M CLOCKS)

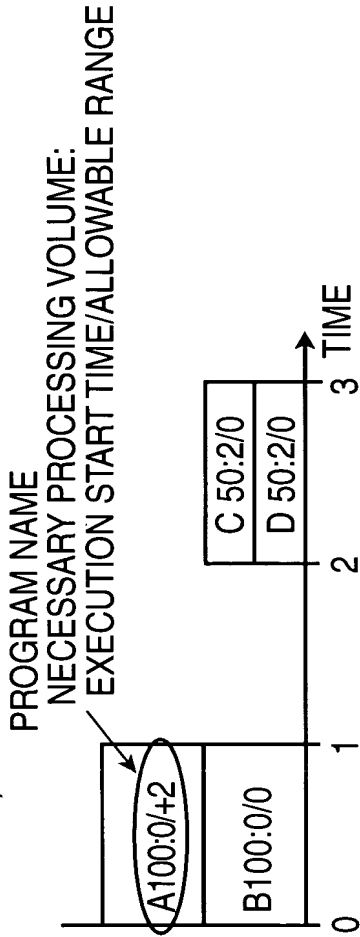


FIG.3A2

DETERMINED PROGRAM
EXECUTION TIME

NECESSARY PROCESSING VOLUME
(M CLOCKS)

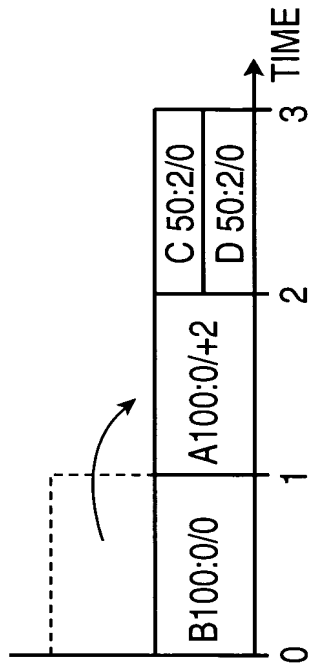
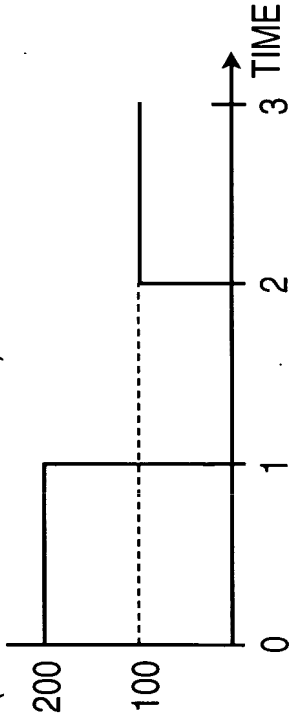


FIG.3B1

CPU OPERATING FREQUENCY
(WHEN EXECUTED AS REQUESTED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)



DETERMINE PROGRAM
EXECUTION TIME

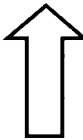


FIG.3B2

CPU OPERATING FREQUENCY
(AFTER EXECUTION TIME IS DETERMINED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)

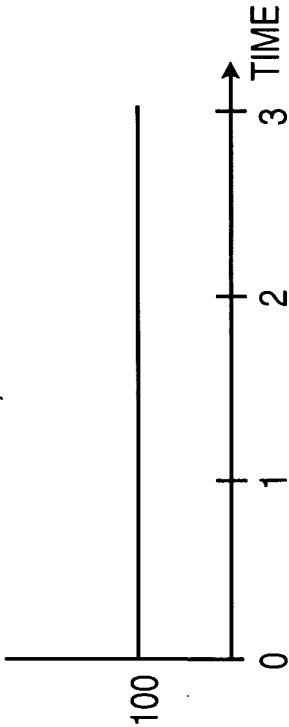


FIG.4A1

EXECUTION TIME REQUEST
WHEN PROGRAM IS REGISTERED
NECESSARY PROCESSING VOLUME
(M CLOCKS))

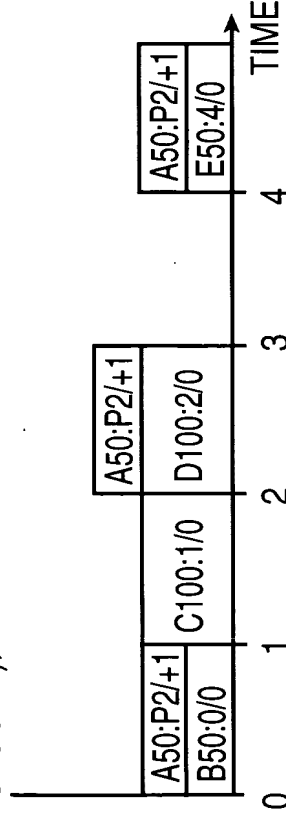


FIG.4A2

DETERMINED PROGRAM EXECUTION TIME
NECESSARY PROCESSING VOLUME
(M CLOCKS))

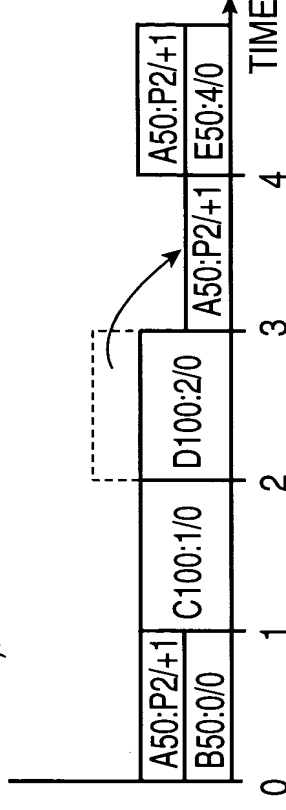
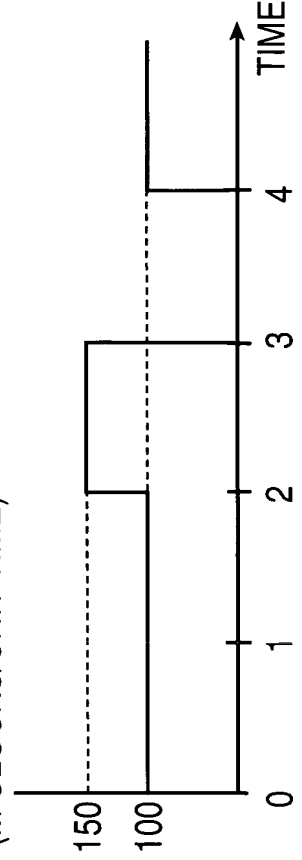


FIG.4B1

CPU OPERATING FREQUENCY
(WHEN EXECUTED AS REQUESTED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)



DETERMINE PROGRAM
EXECUTION TIME



FIG.4B2

CPU OPERATING FREQUENCY
(AFTER EXECUTION TIME IS DETERMINED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)

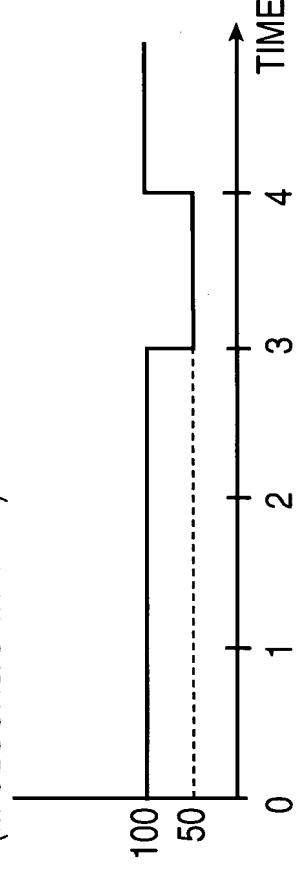


FIG.5

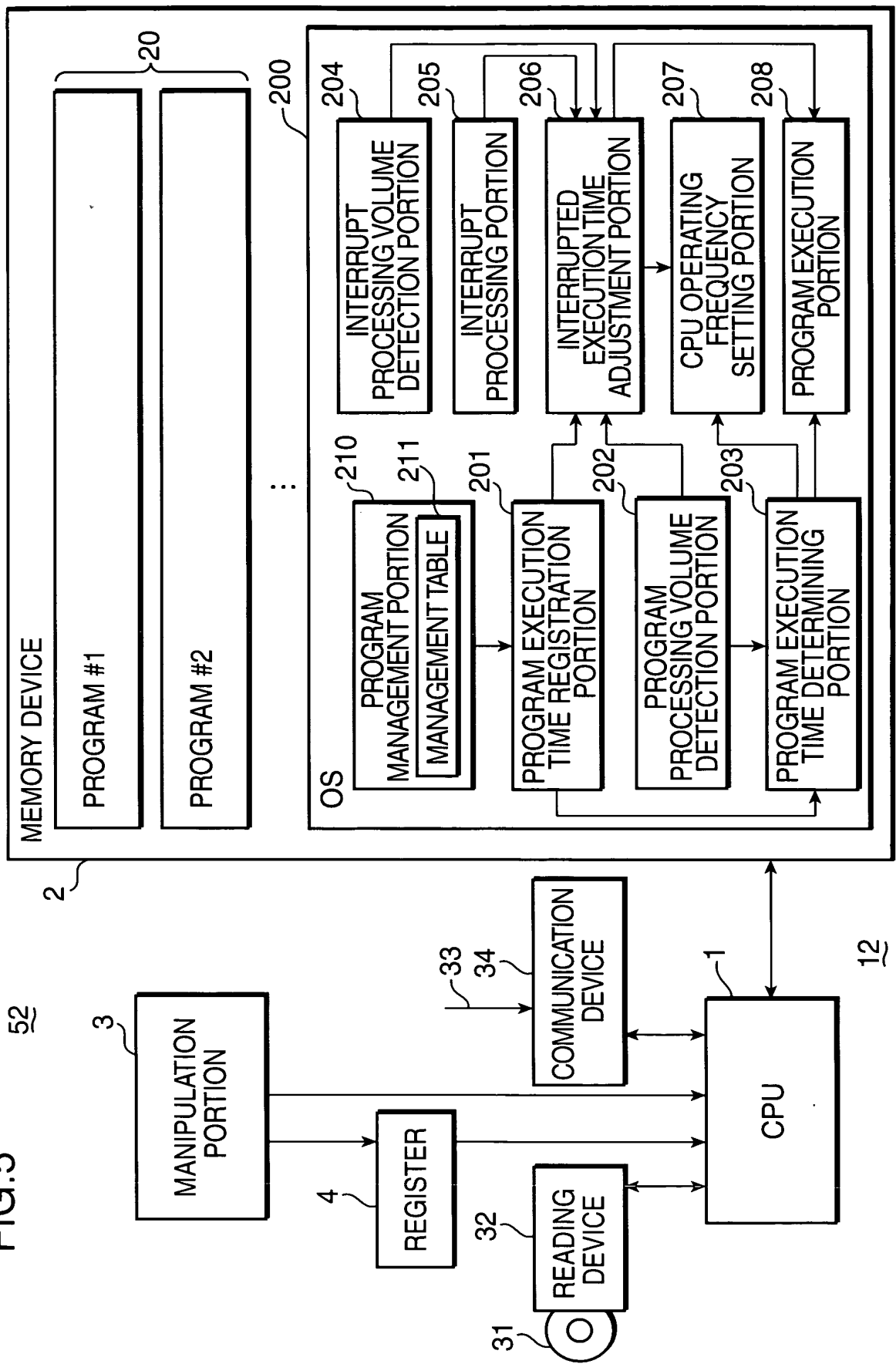


FIG.6

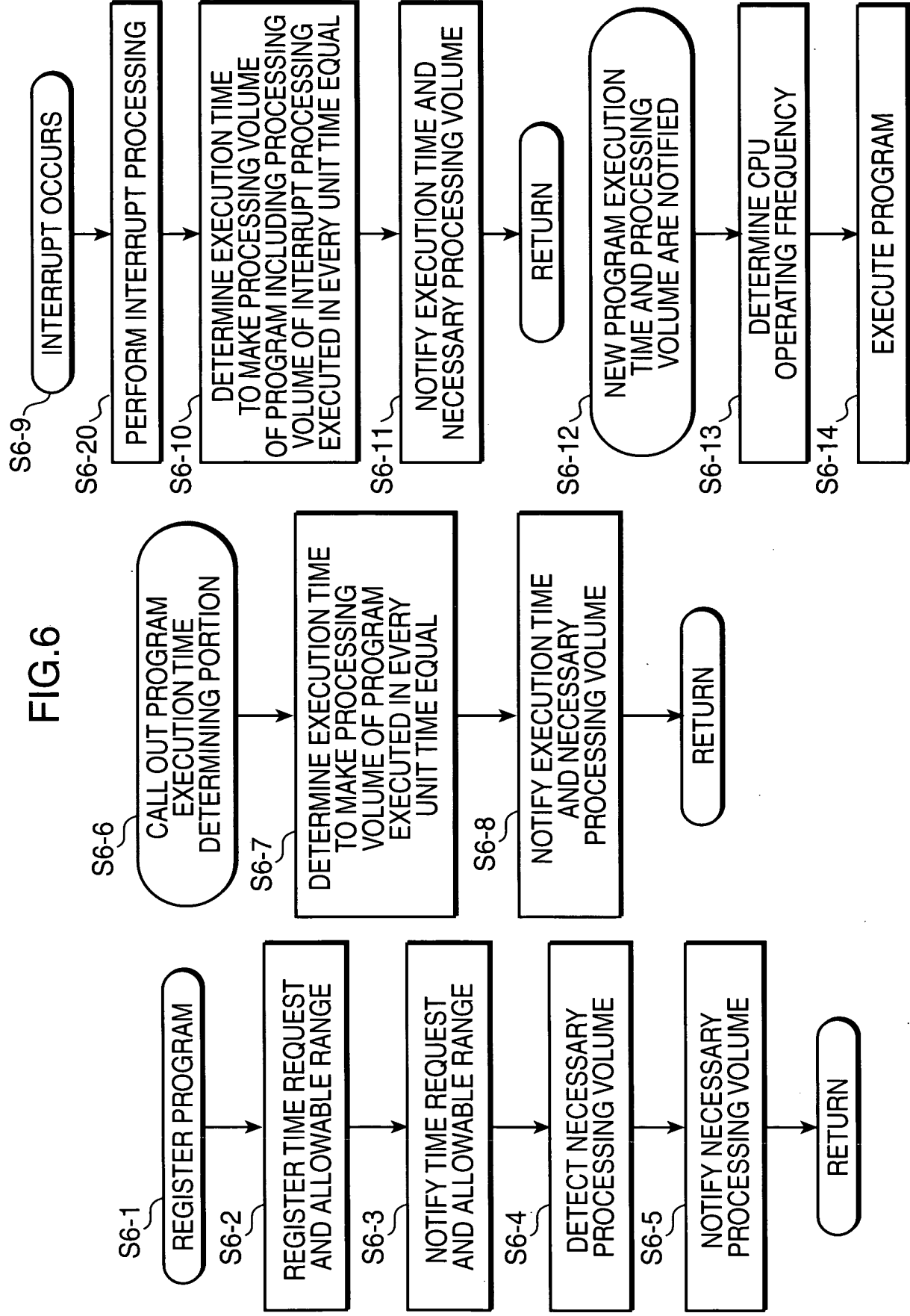


FIG.7A1

OCCURRENCE OF INTERRUPT

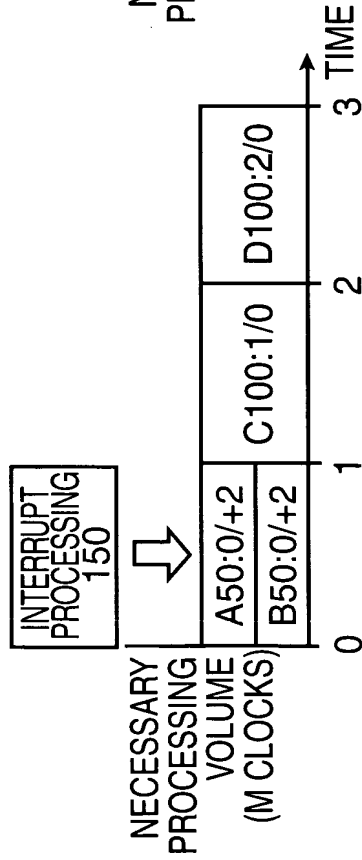


FIG.7A2

RE-DETERMINED PROGRAM EXECUTION TIME

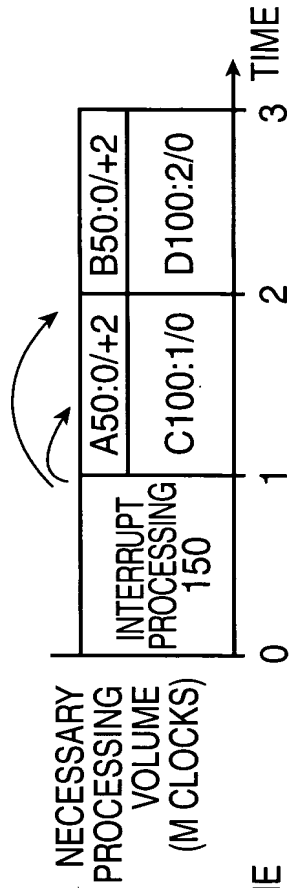
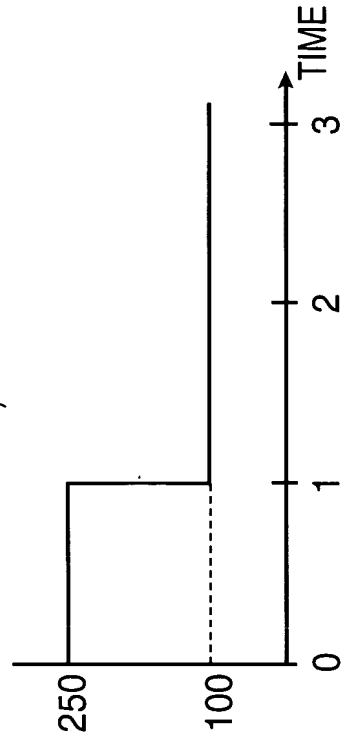


FIG.7B1

CPU OPERATING FREQUENCY (BEFORE RE-DETERMINATION)
OPERATING FREQUENCY (M CLOCKS/UNIT TIME)



DETERMINE PROGRAM EXECUTION TIME

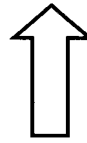


FIG.7B2

CPU OPERATING FREQUENCY (AFTER RE-DETERMINATION)
OPERATING FREQUENCY (M CLOCKS/UNIT TIME)

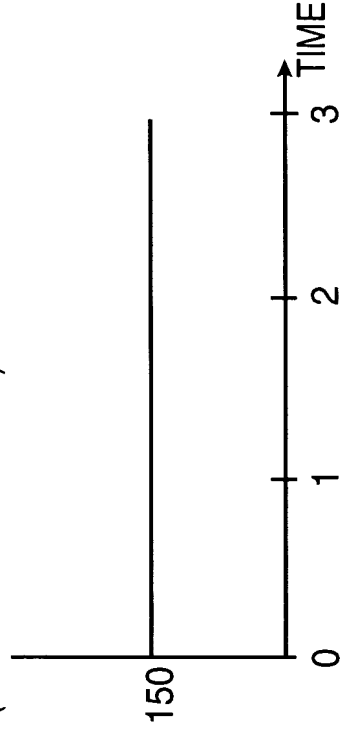
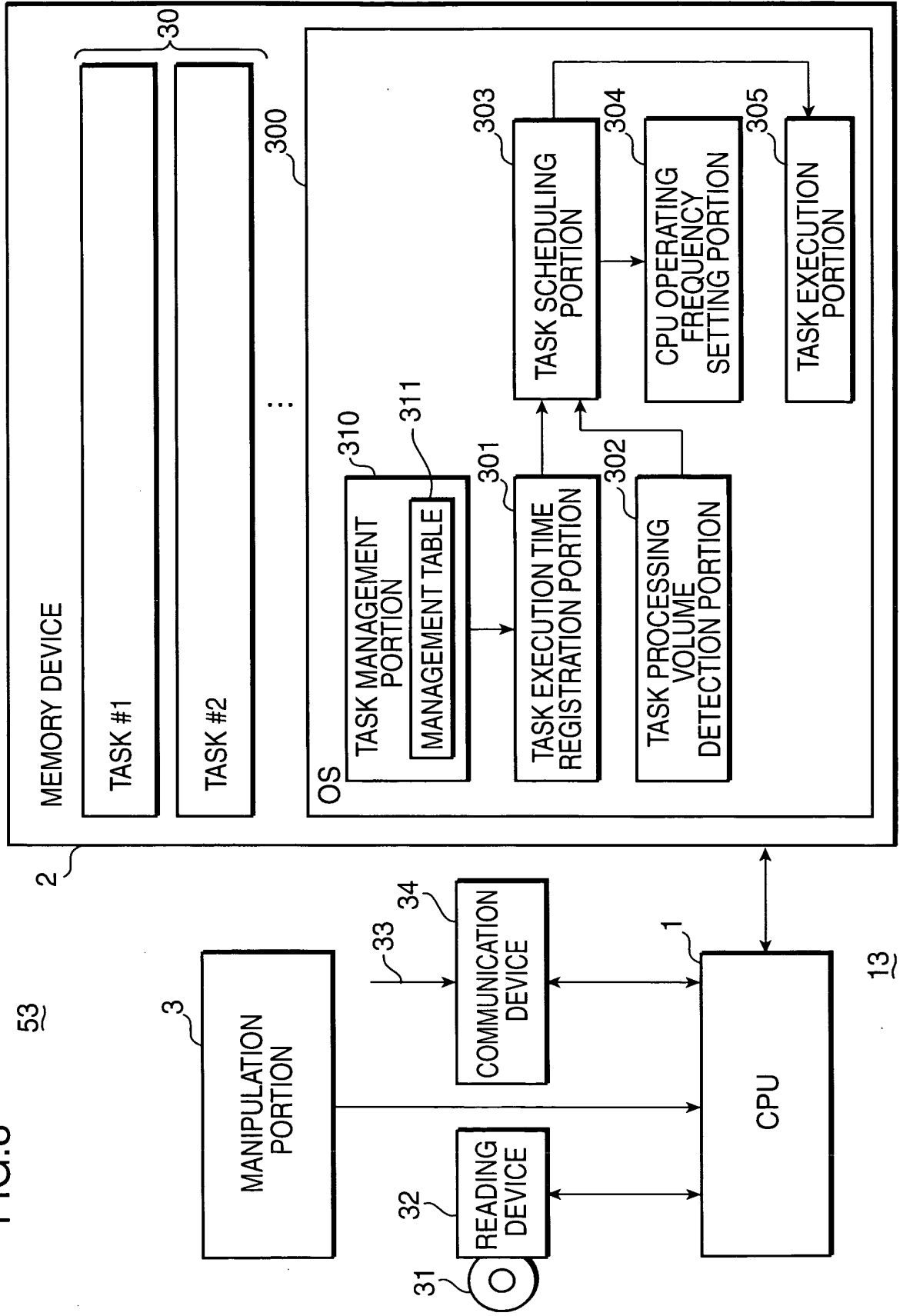


FIG.8



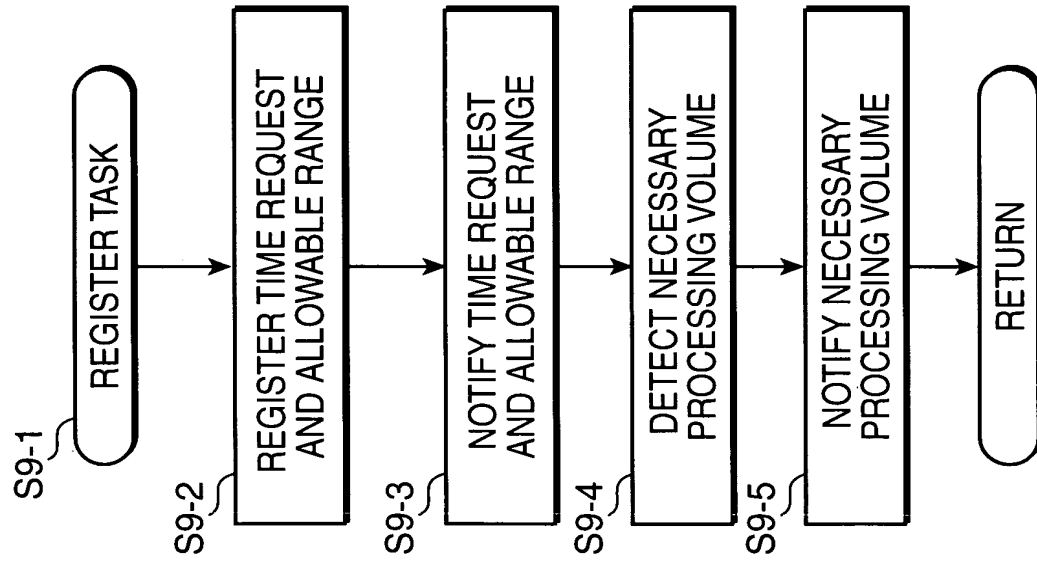


FIG.9

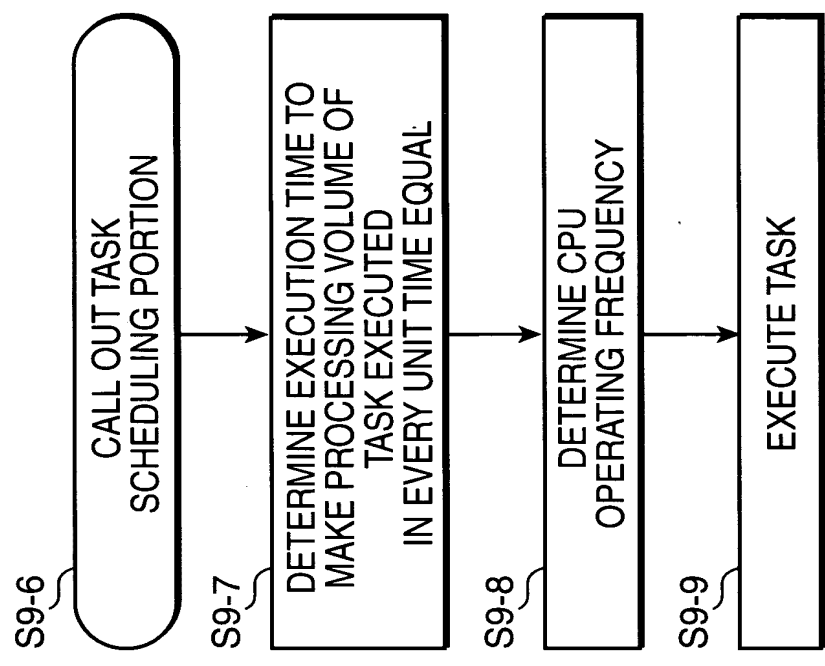


FIG.10A1

NORMAL DEAD LINE SCHEDULE

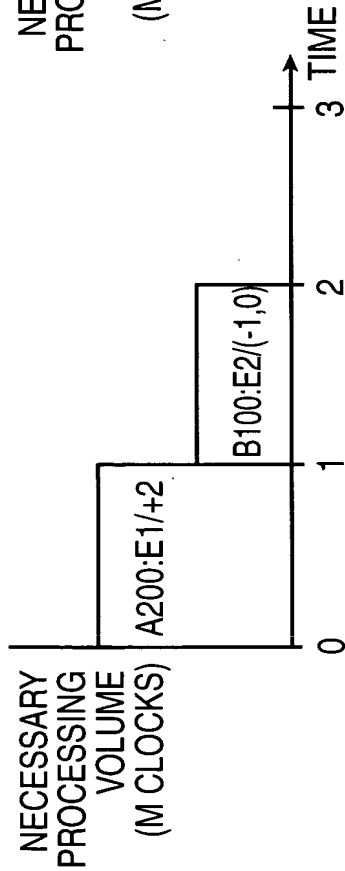


FIG.10A2

SCHEDULING USING ALLOWABLE RANGE

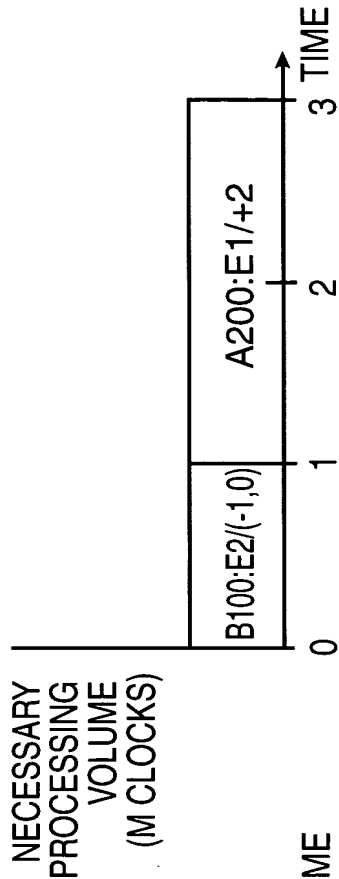


FIG.10B1

CPU OPERATING FREQUENCY (NORMAL)

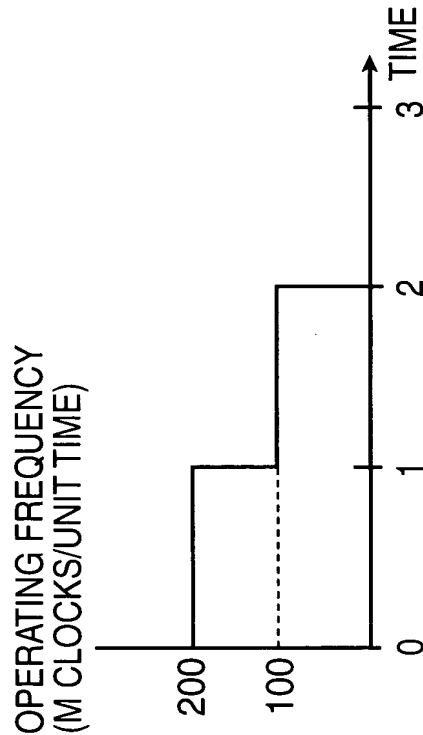


FIG.10B2

CPU OPERATING FREQUENCY (SCHEDULED USING ALLOWABLE RANGE)

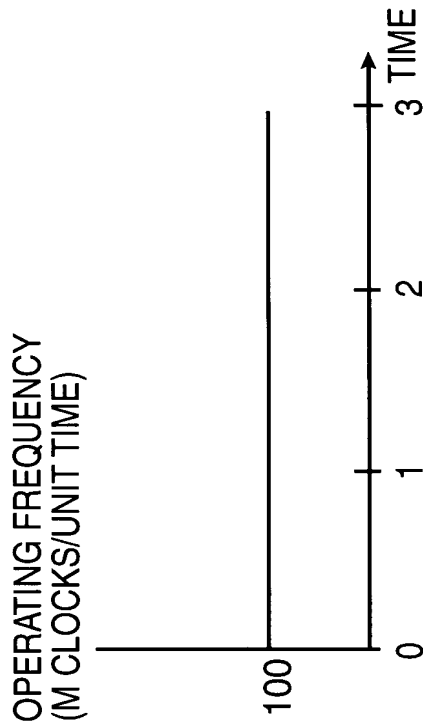


FIG. 11

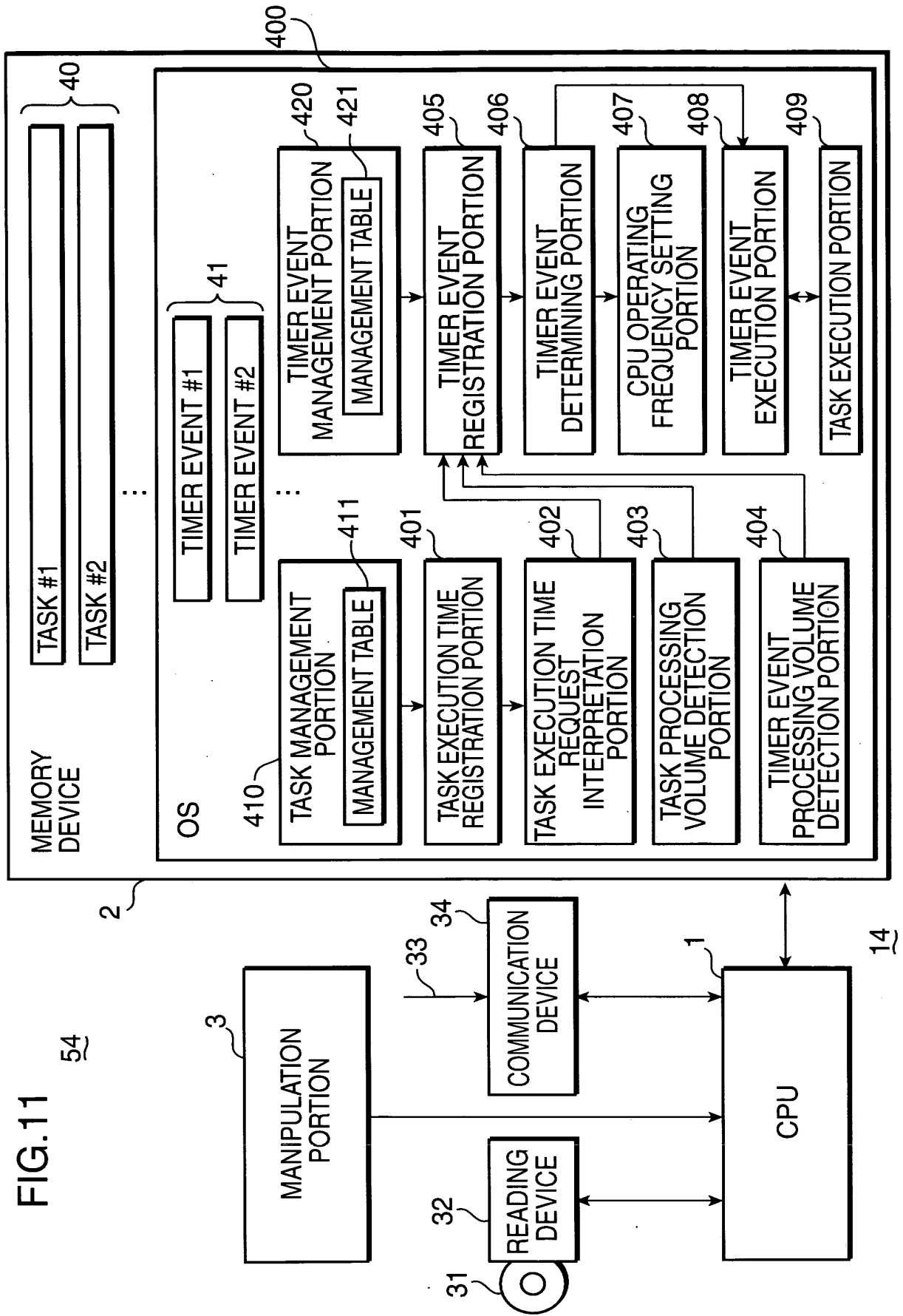


FIG.12

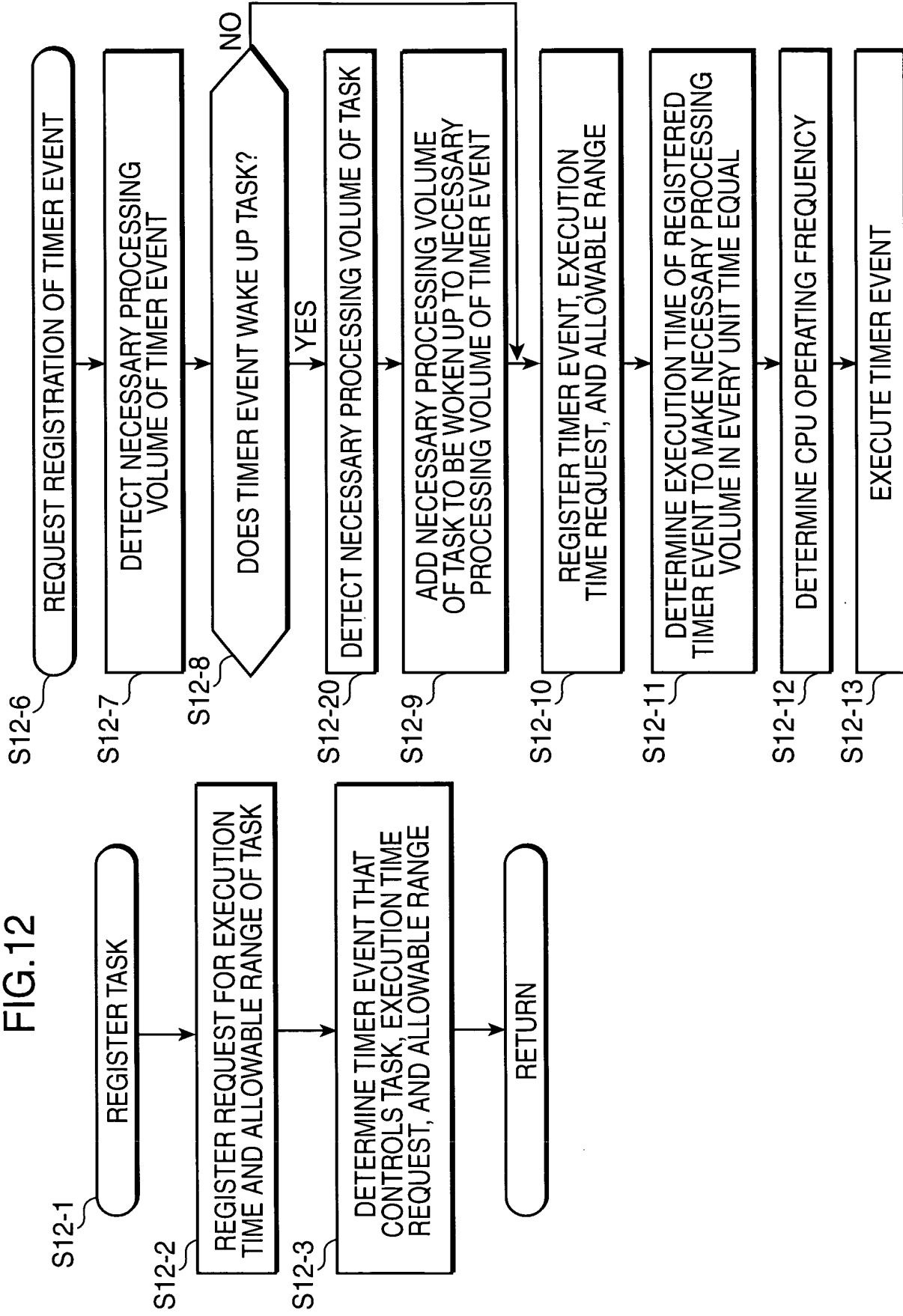


FIG.13A1

EXECUTION TIME REQUEST
WHEN TIMER EVENT IS REGISTERED

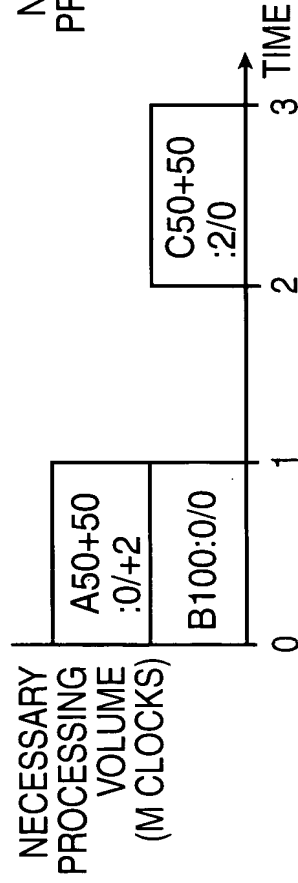


FIG.13A2

DETERMINED TIMER EVENT
EXECUTION TIME

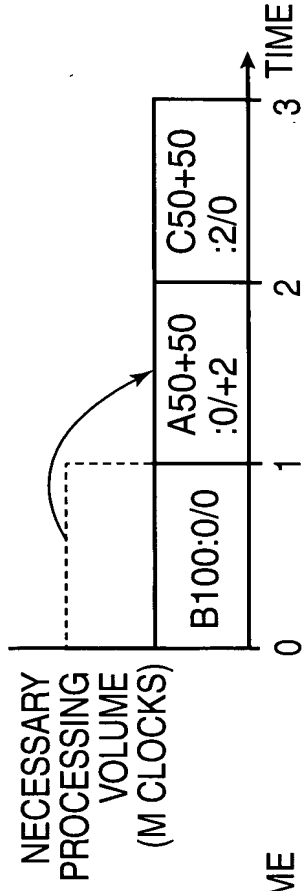


FIG.13B1

CPU OPERATING FREQUENCY
(WHEN EXECUTED AS REQUESTED)
OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)

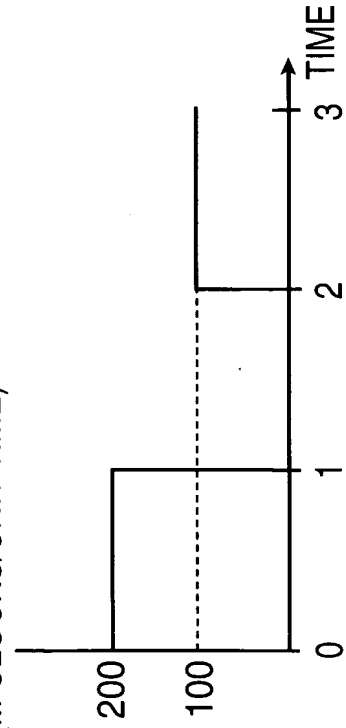


FIG.13B2

CPU OPERATING FREQUENCY
(AFTER EXECUTION TIME IS DETERMINED)
OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)

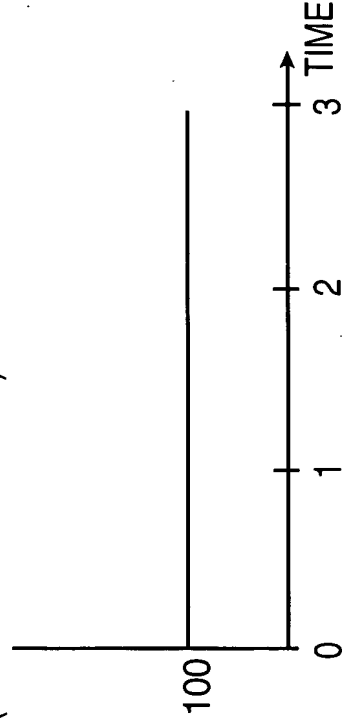


FIG.14A1

EXECUTION TIME REQUEST
WHEN TIMER EVENT IS REGISTERED]

NECESSARY PROCESSING VOLUME
(M CLOCKS)

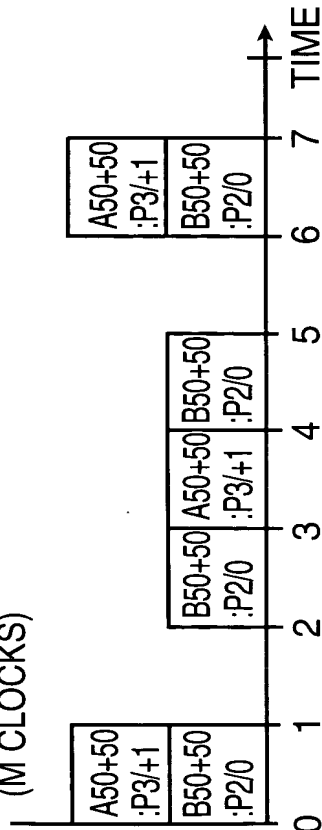


FIG.14A2

DETERMINED TIMER EVENT EXECUTION TIME

NECESSARY PROCESSING VOLUME
(M CLOCKS)

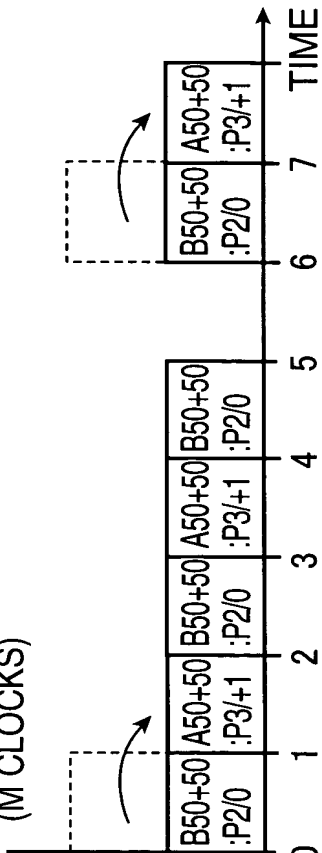
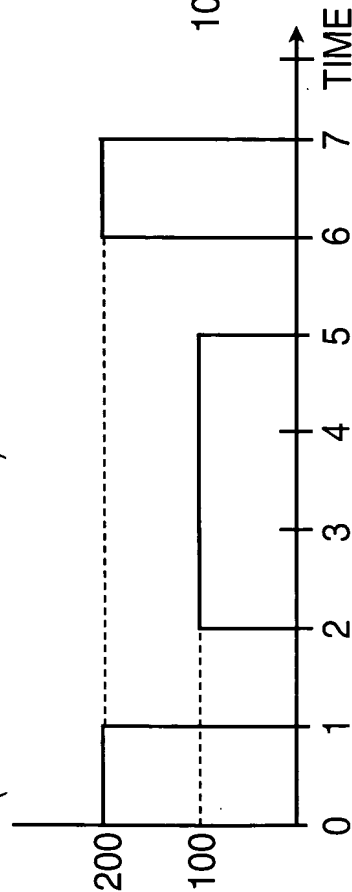


FIG.14B1

CPU OPERATING FREQUENCY
(WHEN EXECUTED AS REQUESTED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)



ADJUST PROGRAM
EXECUTION TIME

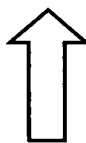


FIG.14B2

CPU OPERATING FREQUENCY
(AFTER EXECUTION TIME IS DETERMINED)

OPERATING FREQUENCY
(M CLOCKS/UNIT TIME)

